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**Nuclear fuel can jet etcher - has beam with upper working chambers and lower pressure chambers whose pairs are connected to distributing header**

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Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
SU 1356521	A	19900330	SU 3968267	A	19850816	199036 B

Priority Applications (No Type Date): SU 3968267 A 19850816

Abstract (Basic): SU 1356521 A

Improved chemical treatment of long cylindrical components, such as fuel element cans of nuclear reactors and intensified etching process are due to the series of working and pressure chambers of the beam. The working chambers are made in the upper part of the beam, and are interconnected as well as intersect the through channel providing passage for the workpiece. The pressure chambers are in the lower part of the beam and are in line with the working chambers, while each pair of pressure chambers communicates with the distributing manifold via tangent holes.

The etching solution is admitted to the distributing manifold of the beam (5) through the inlet (13), and then fed out at controlled velocity and in a given direction by the tangent holes (12) to reach the lower pressure chamber (9). The solution is transferred to the working chamber (8), while the workpiece (4) is drawn through the chambers by rollers (15). The spent solution from the working chambers enters the rectangular chamber (1) leading to the drain tube (14).

ADVANTAGE - The intensified feed of etching soln. improves the chemical treatment and lowers the nonuniformity of surface etching. Bul.12/30.3.90 (4pp Dwg.No. 1/3)

Title Terms: NUCLEAR; FUEL; CAN; JET; ETCH; BEAM; UPPER; WORK; CHAMBER; LOWER; PRESSURE; CHAMBER; PAIR; CONNECT; DISTRIBUTE; HEADER

Derwent Class: K05; M14

International Patent Class (Additional): C23G-003/00

File Segment: CPI

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